

## RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 091770169C

Source: JFW16

Date Processed by STIC: 1-13-05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 01/13/2005

PATENT APPLICATION: US/09/770,169C

TIME: 11:44:10

Input Set : A:\39754-0531A saved January 4 2005.txt

Output Set: N:\CRF4\01132005\I770169C.raw

(ps.6)

```

4 <110> APPLICANT: Saxon, Andrew
5   Zhang, Ke
7 <120> TITLE OF INVENTION: IMMUNOGLOBULIN CLASS SWITCH
8   RECOMBINATION
10 <130> FILE REFERENCE: 39754-0531 A
12 <140> CURRENT APPLICATION NUMBER: 09/770,169C
13 <141> CURRENT FILING DATE: 2001-01-26
15 <160> NUMBER OF SEQ ID NOS: 114
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 27
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: synthetic oligonucleotide
W--> 26 <400> SEQUENCE: 1
27 ttgtccaggc cggcagcatc accggag 27
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 31
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: synthetic oligonucleotide
37 <400> SEQUENCE: 2
38 actcctcagt gggatggcct ctacactccc t 31
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 22
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: synthetic oligonucleotide
48 <400> SEQUENCE: 3
49 ctagaagctt tattgcggta gt 22
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 24
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: synthetic oligonucleotide
59 <400> SEQUENCE: 4
60 cgacaagctt agtttctatt ggtc 24
62 <210> SEQ ID NO: 5
63 <211> LENGTH: 28

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```

64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: synthetic oligonucleotide
70 <400> SEQUENCE: 5
71 actcagatgg ctaaactgag cctaagct                28
73 <210> SEQ ID NO: 6
74 <211> LENGTH: 26
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: synthetic oligonucleotide
81 <400> SEQUENCE: 6
82 atgttttcagg ttcaggggga ggtgtg                26
84 <210> SEQ ID NO: 7
85 <211> LENGTH: 24
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: synthetic oligonucleotide
92 <400> SEQUENCE: 7
93 gaggcctagac taacaggctg aact                24
95 <210> SEQ ID NO: 8
96 <211> LENGTH: 30
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: synthetic oligonucleotide
103 <400> SEQUENCE: 8
104 actcctcagt gggatggact cacactccct            30
106 <210> SEQ ID NO: 9
107 <211> LENGTH: 28
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: synthetic oligonucleotide
114 <400> SEQUENCE: 9
115 aagcttttatt gcggtagttt atcacagt            28
117 <210> SEQ ID NO: 10
118 <211> LENGTH: 27
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: synthetic oligonucleotide
125 <400> SEQUENCE: 10
126 ccaagatctc caggcaggca gaagtat            27
128 <210> SEQ ID NO: 11
129 <211> LENGTH: 29
130 <212> TYPE: DNA

```

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```

131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: synthetic oligonucleotide
136 <400> SEQUENCE: 11
137 cccaactagt cttagcctga tacaacctg          29
139 <210> SEQ ID NO: 12
140 <211> LENGTH: 27
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: synthetic oligonucleotide
147 <400> SEQUENCE: 12
148 ttgtccaggc catcagcatc actggag          27
150 <210> SEQ ID NO: 13
151 <211> LENGTH: 25
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: synthetic oligonucleotide
158 <400> SEQUENCE: 13
159 agctgtccag gaacccgaca gggag          25
161 <210> SEQ ID NO: 14
162 <211> LENGTH: 21
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: synthetic oligonucleotide
169 <400> SEQUENCE: 14
170 gttgatagtc cctggggtgt a          21
172 <210> SEQ ID NO: 15
173 <211> LENGTH: 25
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: synthetic oligonucleotide
180 <400> SEQUENCE: 15
181 tgtcccttag aggacaggtg gccaa          25
183 <210> SEQ ID NO: 16
184 <211> LENGTH: 24
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: synthetic oligonucleotide
191 <400> SEQUENCE: 16
192 tctagacaag gggacctgct catt          24
194 <210> SEQ ID NO: 17
195 <211> LENGTH: 29
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence

```

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```

199 <220> FEATURE:
200 <223> OTHER INFORMATION: synthetic oligonucleotide
202 <400> SEQUENCE: 17
203 ttatcccagc agaactcagt ttaaatacac 29
205 <210> SEQ ID NO: 18
206 <211> LENGTH: 22
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: synthetic oligonucleotide
213 <400> SEQUENCE: 18
214 gccagttca gttaacctca ac 22
216 <210> SEQ ID NO: 19
217 <211> LENGTH: 40
218 <212> TYPE: DNA
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 19
222 tgggctgagc tgggctgggc tgggctgggc tgagcgggtc 40
224 <210> SEQ ID NO: 20
225 <211> LENGTH: 40
226 <212> TYPE: DNA
227 <213> ORGANISM: Homo sapiens
229 <400> SEQUENCE: 20
230 tgggctgagc tgggctggtg gaaggcagga cgagcagggg 40
232 <210> SEQ ID NO: 21
233 <211> LENGTH: 39
234 <212> TYPE: DNA
235 <213> ORGANISM: Homo sapiens
237 <400> SEQUENCE: 21
238 cagccacagg tgagcaggcc gtgagcagac gagcagggg 39
240 <210> SEQ ID NO: 22
241 <211> LENGTH: 40
242 <212> TYPE: DNA
243 <213> ORGANISM: Homo sapiens
245 <400> SEQUENCE: 22
246 ctaacaggct gaactgggct gagctgagct gaactgggct 40
248 <210> SEQ ID NO: 23
249 <211> LENGTH: 40
250 <212> TYPE: DNA
251 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 23
254 ctaacaggct gaactgggct ggcaggagct gggtagttgc 40
256 <210> SEQ ID NO: 24
257 <211> LENGTH: 40
258 <212> TYPE: DNA
259 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 24
262 tcaactcagct cctagatttt ggcaggagct gggtagttgc 40
264 <210> SEQ ID NO: 25

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TIME: 11:44:10

Input Set : A:\39754-0531A saved January 4 2005.txt

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265 <211> LENGTH: 40
266 <212> TYPE: DNA
267 <213> ORGANISM: Homo sapiens
269 <400> SEQUENCE: 25
270 ttgaactggg ttgagctgag ctgagctgag ctgggctaag 40
272 <210> SEQ ID NO: 26
273 <211> LENGTH: 40
274 <212> TYPE: DNA
275 <213> ORGANISM: Homo sapiens
277 <400> SEQUENCE: 26
278 ttgaactggg ttgagctgag cagagcagag gccactgagg 40
280 <210> SEQ ID NO: 27
281 <211> LENGTH: 40
282 <212> TYPE: DNA
283 <213> ORGANISM: Homo sapiens
285 <400> SEQUENCE: 27
286 cgttcacgga gctgacccag cagagcagag gccactgagg 40
288 <210> SEQ ID NO: 28
289 <211> LENGTH: 39
290 <212> TYPE: DNA
291 <213> ORGANISM: Homo sapiens
293 <400> SEQUENCE: 28
294 tgggctgggc tgagcgggtct agcgggctga gctgagctg 39
296 <210> SEQ ID NO: 29
297 <211> LENGTH: 40
298 <212> TYPE: DNA
299 <213> ORGANISM: Homo sapiens
301 <400> SEQUENCE: 29
302 tgggctgggc tgagcgggtc agcctcctgg tgccgggaag 40
304 <210> SEQ ID NO: 30
305 <211> LENGTH: 40
306 <212> TYPE: DNA
307 <213> ORGANISM: Homo sapiens
309 <400> SEQUENCE: 30
310 ggctggtgaa agtgcagtgc agcctcctgg tgccaggaag 40
312 <210> SEQ ID NO: 31
313 <211> LENGTH: 40
314 <212> TYPE: DNA
315 <213> ORGANISM: Homo sapiens
317 <400> SEQUENCE: 31
318 agggagctga cccagcagag cagaggccac tgaggagctg 40
320 <210> SEQ ID NO: 32
321 <211> LENGTH: 40
322 <212> TYPE: DNA
323 <213> ORGANISM: Homo sapiens
325 <400> SEQUENCE: 32
326 agggagctga cccagcagag ctgagcgggg ccgagcgggg 40
328 <210> SEQ ID NO: 33
329 <211> LENGTH: 39

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 01/13/2005  
PATENT APPLICATION: US/09/770,169C      TIME: 11:44:11

Input Set : A:\39754-0531A saved January 4 2005.txt  
Output Set: N:\CRF4\01132005\I770169C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:111; N Pos. 1

**VERIFICATION SUMMARY**

DATE: 01/13/2005

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Input Set : A:\39754-0531A saved January 4 2005.txt

Output Set: N:\CRF4\01132005\I770169C.raw

L:26 M:283 W: Missing Blank Line separator, <400> field identifier  
L:963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:0